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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/706,446	11/02/2000	Amar S. Gandhi	3382-56401	6409
26119	7590	03/24/2006	EXAMINER	
KLARQUIST SPARKMAN LLP 121 S.W. SALMON STREET SUITE 1600 PORTLAND, OR 97204			SHAW, PELING ANDY	
			ART UNIT	PAPER NUMBER
			2144	

DATE MAILED: 03/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Supplemental
Notice of Allowability**

Application No.

09/706,446

Examiner

Peling A. Shaw

Applicant(s)

GANDHI ET AL.

Art Unit

2144

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/20/06.
2. ☒ The allowed claim(s) is/are 1-8, 10-19 and 21-23.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

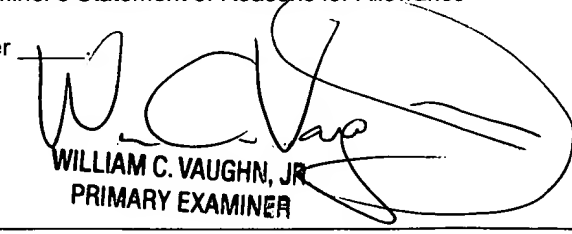
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 3/20/06.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


WILLIAM C. VAUGHN, JR.
PRIMARY EXAMINER

SUPPLEMENTAL DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Sunjay Y. Mohan, Reg. No. 56,739 on 20 March 2006.

IN THE CLAIMS

Please amend claims 13 and 17 as follows:

13. (Currently Amended) A computer-readable data ~~carrying~~ storage medium having software program code stored thereon, the software program code comprising:

a programmatic peer networking device service control module providing programmatic control of logical device services on a computer device by application software running on a different computing device on a data communications network via a peer-to-peer networking connectivity service control protocol;

an application programming interface for access by the application software, the application programming interface exposed by a service object created based on a service description message comprising a set of actions invocable on the logical device services, the service object created by the programmatic peer networking device service control module, the application programming interface being a run-time dispatch interface having an invoke service action method member, the

Art Unit: 2143

invoke service action method member accepting an action identifier, ingoing action arguments, outgoing action arguments, and action return value as parameters upon invocation by the application software, wherein the action identifiers, the ingoing action arguments, the outgoing action arguments and the action return values correspond to those of the set of actions specified in the service description message and are specified therein, the set of actions including at least one action not available for invocation by application software previous to the creation of the service object; and

invoke service action method member-implementing code of the programmatic peer networking device service control module operating responsive to an invocation of the invoke service action method member on the application programming interface by the application software to exchange data messages with a logical device service of a separate computing device on the data communications network in accordance with the peer-to-peer networking connectivity service control protocol so as to invoke an action of the logical device service including the at least one action not available for invocation by application software previous to the creation of the service object as per the parameters of the invoke service action method member and pass outgoing action arguments and action return value from the logical device service back to the application software.

17. (Currently Amended) A software module carried on a ~~tangible~~ computer-executable software ~~carrying~~ storage medium, the software module operable for:

providing programmatic control of a logical device running a computing device by an application software on a different computing device over a data communications network by

Art Unit: 2143

exposing a programming interface for providing programmatic logical device service control via peer networking connectivity, the programming interface comprising:

an invoke action method member having parameters for passing an action identifier, action arguments and action return value;

wherein an implementation of the invoke action method member in the software module converts an invocation of the invoke action method member into an exchange of text messages with the logical device via peer networking connectivity based on a service description obtained from the logical device to control a service of the logical device; and

a logical device state call back method member having parameters for passing a reference to a call back interface for reporting change of the logical device's state to other registered devices on the network.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peling A. Shaw whose telephone number is (571) 272-7968. The examiner can normally be reached on 8:00-6:00, 1st and 2nd Friday Off.

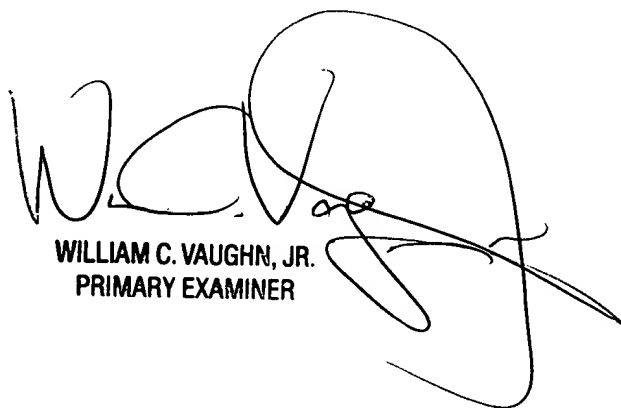
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William C. Vaughn, Jr. can be reached on (571) 272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2143

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Peling A. Shaw
Patent Examiner
Art Unit 2144

PS



WILLIAM C. VAUGHN, JR.
PRIMARY EXAMINER